Inspiring Innovation • Persistent Perfection

Maximus IV GENE-Z/GEN3

Fully PCI-Express 3.0 Ready, Intel Z68-mATX gaming board with LucidLogix® Virtu™ switchable graphic technology

- LGA1155 socket for 2nd Generation Intel® Core™ i7/Core™ i5/Core™ i3/Pentium/Celeron Processors
- Intel® Z68 Express Chipset
- Dual DDR3 2200 (O.C.)
- Mem TweakIt - Dynamic timing adjustments, DRAM efficiency gauge
- ROG Connect with GPU TweakIt
- SupremeFX X-Fi 2 Built-in

The Republic of Gamers consists only the best of the best. We offer the best hardware engineering, the fastest performance, the most innovating ideas, and we welcome the best gamers to join in.

In the Republic of Gamers, mercy rules are only for the weak, and bragging rights means everything. We believe in making statements and we excel in competitions. If your character matches our trait, then join the elite club, make your presence felt, in the Republic of Gamers.

REPUBLIC OF GAMERS

CPU Feature

LGA1155 socket for 2nd Generation Intel® Core™ i7/Core™ i5/Core™ i3/Pentium/Celeron Processors

This motherboard supports the latest Intel® Core™ i3/Core™ i5/Core™ i7/Pentium/Celeron 2nd generation processors in the LGA1155 package, with memory and PCI Express controllers integrated to support 2-channel (4 DIMM) DDR3 memory and 16 PCI Express 2.0 lanes. This provides great graphics performance. Intel® Core™ i3/Core™ i5/Core™ i7/Pentium/Celeron 2nd generation processors are among the most powerful and energy efficient CPUs in the world.

PCI Express® 3.0

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PCI Express® 3.0 (PCIe 3.0) is the latest PCI Express bus standard with improved encoding schemes that provide twice the performance of current PCIe 2.0. Total bandwidth for a x16 link reaches a maximum of 32GB/s, double the 16GB/s of PCIe 2.0 (in x16 mode). As such, PCIe 3.0 provides users unprecedented data speeds, combined with the convenience and seamless transition offered by complete backward compatibility with PCIe 1.0 and PCIe 2.0 devices. PCIe 3.0 will become a must-have feature for users who wish to improve and optimize graphic performance, as well as have the latest technology available to them.

* Actual PCIe speed depends on installed CPU type.

Chipset Features

Intel® Z68 Express Chipset

The Intel® Z68 Express Chipset is a single-chipset design to support socket 1155 Intel® second generation Core™ i7/Core™ i5/Core™ i3 processors. It provides improved performance by utilizing serial point-to-point links, allowing increased bandwidth and stability. Additionally, Z68 chipset provides 2 SATA 6Gb/s and 4 SATA 3Gb/s ports for faster data retrieval at double the bandwidth of current bus systems. Moreover, Intel® Z68 Express Chipset also supports iGPU function, letting users enjoy the latest Intel integrated graphic performance.

Intel® Smart Response Technology

Faster Access, Bigger Storage

Intel® Smart Response Technology boosts overall system performance. It uses an installed fast SSD (min 18.6GB available) as a cache for frequently accessed operations, speeding up hard drive/main memory interaction. Key benefits are expedited hard drive speeds, reduced load and wait times and maximized storage utilization. Power consumption also goes down by reducing unnecessary hard drive spin, an important part of Green ASUS eco-friendly computing.

* Support Intel® Smart Response Technology on 2nd generation Intel® Core™ processor family

Multi-GPU support

ROG Extreme OC Features

LucidLogix Virtu

Enjoy optimal onboard graphics and discrete GPU's performance by dynamic switching!
LucidLogix Virtu is the GPU virtualization software along with 2nd generation Intel® Core processor featuring like Intel Quick Sync to enable an all-inclusive media platform and discrete GPUs coming with high-end DirectX 11 3D, anti-aliasing and performance features to get the thrills in games. Ultimately, users can enjoy optimal simultaneous performance in 3D gaming and video functions like transcoding and HD playback without having to manually change settings between GPUs.

SLI/CrossFireX On-Demand

Why choose when you can have both?
SLI or CrossFireX? Fret no longer because with the ROG Maximus IV GENE-Z/GEN3, you´ll be able to run both multi-GPU setups. The board features SLI/CrossFireX on Demand technology, supporting SLI or CrossFireX configuration. Whichever path you take, you can be assured of jaw-dropping graphics at a level previously unseen.

Extreme Engine Digi+

Powerful combination of analog and digital design elements
Extreme Engine Digi+ equipped with high performance digital VRM design can easily achieve the ultimate performance with adjustable CPU PWM frequency. It expedites heat dissipation and achieves better electric conduction keeping critical components reliable. Now you'll be able to push your spanking new Intel CPU to the limit, hitting benchmark scores that others only dream of. Extreme Engine Digi+ balances the need for voltage and the desire for rock solid performance to bring the ultimate user experience.

ROG Connect

Plug and Overclock - Tweak it the hardcore way!
Monitor the status of your desktop PC and tweak its parameters in real-time via a notebook—just like a race car engineer—with ROG Connect. ROG Connect links your main system to a notebook through a USB cable, allowing you to view real-time POST code and hardware status readouts on your notebook, as well as make on-the-fly parameter adjustments at a purely hardware level.

GameFirst

The speed you need to pwn
Low Internet latency allows you to frag more, and get fragged less. That's why ROG has introduced GameFirst, a feature that manages the flow of traffic according to your needs so that you can still listen to online music, download and upload files, and engage in Internet chats without sacrificing the low ping times you need to pwn your opponents.

GPU.DIMM Post

Easily check the status of your graphics cards and memory in the BIOS!
Notice potential problems even before you enter the OS! Overclockers can save valuable minutes in detecting component failure under extreme conditions. With GPU.DIMM Post, quickly and easily check your graphics cards and memory DIMMs status in the BIOS, potentially keeping that record-breaking overclock!

BIOS Print

One click, easily share your BIOS settings
ROG offers a whole new EFI BIOS feature to handle the demands of an overclocking experience. Maximus IV Extreme features ROG BIOS Print which allows users to easily share their BIOS settings to others with the press of a button. The days of using a camera to take BIOS screenshot are over.

Mem TweakIt

Dynamic timing adjustments, DRAM efficiency gauge
When changing DRAM settings in BIOS, it always takes time for the system to reboot. Worry no more! With Mem TweakIt, you can do DRAM tuning in real-time and view your DRAM efficiency score.

CPU Level Up

A simple click for instant upgrade!
Ever wish that you could have a more expansive CPU? Upgrade your CPU at no additional cost with ROG's CPU Level Up! Simply pick the processor you wanted to OC to, and the motherboard will do the rest! See the new CPU speed and enjoy that performance instantly. Overclocking is never as easy as this.

Sound with Clarity

SupremeFX X-Fi 2

Play with ultra-real cinematic in-game surround sound!
SupremeFX X-Fi 2 delivers incredible gaming audio experiences to ROG die hards. It features EAX 5.0 and OpenAL for ultra-real cinematic in-game audio. It even comes with THX TruStudio PRO branding, which makes games, music and movies sound way better! SupremeFX X-Fi 2 also implements gold-plated jacks and high quality capacitors to ensure high definition adventures in audio.

ROG Rich Bundled

ROG CPU-Z

Whole new design of CPU-Z
ROG CPU-Z is a customized ROG version authorized by CPUID. It has the same functionality and credibility as the original version, with a unique design. Use the whole new look of ROG CPU-Z to truly report your CPU related information and your uniqueness.

Kaspersky® Anti-Virus

The best protection from viruses and spyware
Kaspersky® Anti-Virus Personal offers premium antivirus protection for individual users and home offices. It is based on advanced antivirus technologies. The product incorporates the Kaspersky® Anti-Virus engine, which is renowned for malicious program detection rates that are among the industry´s highest.

Other Features

Intel Gigabit LAN

Experience the fast network connectivity!

The LAN solution from Intel has been long known to have a better throughput, lower CPU utilization as well as better stability. With the Intel Gigabit LAN solutions onboard, the ultimate network experience can therefore be delivered to its users like never before.

Intel® Ethernet

HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE

Specifications

CPU	Intel® Socket 1155 for 2nd Generation Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processors Supports Intel® 32 nm CPU Supports Intel® 22 nm CPU Supports Intel® Turbo Boost Technology 2 * The Intel® Turbo Boost Technology 2.0 support depends on the CPU types. * Refer to www.asus.com for CPU support list
Chipset	Intel® Z68
Memory	4 x DIMM, Max. 32GB, DDR3 2200(O.C.)/2133(O.C.)/1866(O.C.)/1600/1333 MHz Non-ECC, Un-buffered Memory Single Channel Memory Architecture Supports Intel® Extreme Memory Profile (XMP) * Hyper DIMM support is subject to the physical characteristics of individual CPUs. * Refer to www.asus.com or user manual for the Memory QVL (Qualified Vendors Lists). * Due to CPU behavior, DDR3 2200/2000/1800 MHz memory module will run at DDR3 2133/1866/1600 MHz frequency as default.
Graphic	Integrated Graphics Processor VGA output support : HDMI port - Supports HDMI with max. resolution 1920 x 1200 @ 60 Hz
Multi-GPU Support	Supports NVIDIA® SLI™ Technology Supports AMD CrossFireX™ Technology Supports LucidLogix® Virtu™ Technology
Expansion Slots	2 x PCIe 3.0/2.0 x16 (x16 or dual x8) *1 1 x PCIe 2.0 x4
Storage	**Intel® Z68 chipset :** 2 x SATA 6Gb/s port(s), red 4 x SATA 3Gb/s port(s), gray Support Raid 0, 1, 5, 10 Support Intel® Smart Response Technology on 2nd generation Intel® Core™ processor family **JMicron® JMB362 controller :** *2 2 x eSATA 3Gb/s port(s), red
LAN	Intel®, 1 x Gigabit LAN Controller(s)
Audio	SupremeFX X-Fi 2 built-in 8-Channel High Definition Audio CODEC - Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking **Audio Feature :** - X-Fi® Xtreme Fidelity™ - EAX® Advanced™ HD 5.0 - THX® TruStudio PRO™ - Creative ALchemy - Blu-ray audio layer Content Protection - Optical S/PDIF out port(s) at back panel
USB Ports	**ASMedia® USB 3.0 controller :** 4 x USB 3.0 port(s) (2 at back panel, blue, 2 at mid-board) **Intel® Z68 chipset :** 12 x USB 2.0 port(s) (8 at back panel, black, 4 at mid-board)
Overclocking Features	**ROG Connect** **Extreme Engine Digi+ :** - 8 -phase CPU power design + 4 -phase iGPU power design - 2 -phase Memory power design **Mem TweakIt** **ROG Extreme OC kit :** - Debug LED **ProbeIt** **UEFI BIOS features :** - ROG BIOS Print - GPU.DIMM Post **GameFirst** **iROG**

Extreme Tweaker
Loadline Calibration
Overclocking Protection :

Special Features	- COP EX (Component Overheat Protection - EX) - ASUS C.P.R.(CPU Parameter Recall)
	ASUS TurboV EVO : - CPU Level Up **ASUS Exclusive Features** : - MemOK! - Onboard Button : Power/Reset/Clr CMOS (at back IO) **ASUS Quiet Thermal Solution** : - ASUS Fan Xpert **ASUS EZ DIY :** - ASUS Q-Shield - ASUS O.C. Profile - ASUS CrashFree BIOS 3 - ASUS EZ Flash 2 - ASUS MyLogo 2 **ASUS Q-Design :** - ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED) - ASUS Q-Slot - ASUS Q-DIMM - ASUS Q-Connector
Back I/O Ports	1 x PS/2 keyboard/mouse combo port(s) 1 x HDMI 2 x eSATA 3Gb/s 1 x LAN (RJ45) port(s) 2 x USB 3.0 8 x USB 2.0 (one port can be switched to ROG Connect) 1 x Optical S/PDIF out 6 x Audio jack(s)
Internal I/O Ports	1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s) 2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s) 2 x SATA 6Gb/s connector(s) 4 x SATA 3Gb/s connector(s) 2 x CPU Fan connector(s) 3 x Chassis Fan connector(s) 1 x S/PDIF out header(s) 1 x 24-pin EATX Power connector(s) 1 x 8-pin ATX 12V Power connector(s) 1 x Front panel audio connector(s) (AAFP) 1 x System panel(s) 6 x ProbeIt Measurement Points 1 x En/Dis-able Clr CMOS header(s) 1 x Power-on button(s) 1 x Reset button(s) 1 x ROG Connect switch(es) 1 x Go Button(s)
Accessories	User's manual I/O Shield 4 x SATA 3Gb/s cable(s) 2 x SATA 6Gb/s cable(s) 1 x SLI bridge(s) 1 x Q-connector(s) (2 in 1) 1 x ROG Connect cable(s) 1 x Cable ties pack(s) 1 x ROG theme label(s) 1 x 12 in 1 ROG Cable Label(s)
BIOS	64Mb Flash ROM, EFI AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.5, ACPI2.0a Multi-Language BIOS
Manageability	WfM2.0, DMI2.0, WOL by PME, WOR by PME, PXE
Support Disc	Support DVD: - Drivers and applications * ASUS AI Suite II * ROG CPU-Z * ROG GameFirst Utility * Sound Blaster X-Fi MB2 Utility * ROG Mem TweakIt Utility * ASUS AI Charger+ * DAEMON Tools Pro Standard * ASUS USB 3.0 Boost * Kaspersky® Anti-Virus 1-year license
Form Factor	uATX Form Factor 9.6 inch x 9.6 inch (24.4 cm x 24.4 cm)
Note	*1: Actual PCIe speed depends on installed CPU type. *2: These SATA ports are for data hard drivers only. ATAPI devices are not supported.